

Table 1.3 Renewable Energy Consumption for Electricity Generation by Energy Use Sector and Energy Source, 2003 - 2007

(Quadrillion Btu)

Sector and Source	2003	2004	2005	2006	2007
Total	4.016	3.723	3.781	4.035	3.699
Biomass	0.768	0.574	0.585	0.591	0.598
Waste	0.249	0.230	0.230	0.241	0.245
Landfill Gas	0.066	0.069	0.068	0.076	0.080
MSW Biogenic ¹	0.148	0.142	0.144	0.147	0.146
Other Biomass ²	0.035	0.019	0.018	0.018	0.019
Wood and Derived Fuels ³	0.519	0.344	0.355	0.350	0.353
Geothermal	0.303	0.311	0.309	0.306	0.308
Hydroelectric Conventional	2.825	2.690	2.703	2.869	2.446
Solar/PV	0.005	0.006	0.006	0.005	0.006
Wind	0.115	0.142	0.178	0.264	0.341
Commercial	0.021	0.021	0.021	0.022	0.020
Biomass	0.020	0.019	0.020	0.021	0.020
Waste	0.019	0.019	0.020	0.021	0.019
Landfill Gas	0.002	0.002	0.002	0.003	0.002
MSW Biogenic ¹	0.013	0.013	0.013	0.013	0.013
Other Biomass ²	0.005	0.004	0.005	0.004	0.004
Wood and Derived Fuels ³	*	*	*	*	*
Geothermal	-	-	-	-	-
Hydroelectric Conventional	0.001	0.001	0.001	0.001	0.001
Solar/PV	-	-	-	-	-
Wind	-	-	-	-	-
Industrial	0.419	0.231	0.226	0.219	0.208
Biomass	0.376	0.199	0.194	0.190	0.193
Waste	0.013	0.005	0.005	0.003	0.004
Landfill Gas	0.001	0.001	0.001	*	*
MSW Biogenic ¹	*	*	*	*	0.001
Other Biomass ²	0.012	0.004	0.003	0.003	0.003
Wood and Derived Fuels ³	0.362	0.194	0.189	0.187	0.188
Geothermal	-	-	-	-	-
Hydroelectric Conventional	0.043	0.033	0.032	0.029	0.016
Solar/PV	-	-	-	-	-
Wind	-	-	-	-	-
Electric Power⁴	3.576	3.471	3.534	3.794	3.470
Biomass	0.372	0.356	0.371	0.379	0.386
Waste	0.216	0.206	0.205	0.216	0.221
Landfill Gas	0.063	0.066	0.064	0.072	0.077
MSW Biogenic ¹	0.135	0.129	0.131	0.134	0.132
Other Biomass ²	0.018	0.011	0.010	0.010	0.012
Wood and Derived Fuels ³	0.156	0.150	0.166	0.163	0.165
Geothermal	0.303	0.311	0.309	0.306	0.308
Hydroelectric Conventional	2.781	2.656	2.670	2.839	2.430
Solar/PV	0.005	0.006	0.006	0.005	0.006
Wind	0.115	0.142	0.178	0.264	0.341

¹Includes paper and paper board, wood, food, leather, textiles and yard trimmings.

²Agriculture byproducts/crops, sludge waste, and other biomass solids, liquids and gases.

³Black liquor, and wood/woodwaste solids and liquids.

⁴The electric power sector comprises electricity-only and combined-heat-power (CHP) plants within North American Classification System (NAICS) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

MSW = Municipal Solid Waste.

PV = Photovoltaic.

* = Less than 500 billion Btu.

- = No data reported.

Notes: Totals may not equal sum of components due to independent rounding. Starting with 2004 EIA adopted a new method of allocating fuel consumption between electric power generation and useful thermal out put (UTO) for combined heat and power (CHP) plants. The new method proportionately distributes a CHP plant's losses between the two output products (electric power and UTO) assuming the same efficiency for production of electricity as UTO. Data revisions are discussed in the Highlights section.

Sources: Analysis conducted by Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels and the following specific sources:

Energy Information Administration, Form EIA-923, "Power Plant Operations Report," and predecessor forms: Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."